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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/796,249	03/09/2004	Shane S. Owara	112056-0167	2387	
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88 BLACK FALCON AVENUE			LOVEL, KIMBERLY M		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/796,249	OWARA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kimberly Lovel	2167				
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 136(a). In no event, however, may a reput will apply and will expire SIX (6) MONTH te, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 i	<u>March 2007</u> .					
<i>;</i> —	This action is FINAL . 2b) ☑ This action is non-final.					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-41</u> is/are pending in the application	n.					
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-41</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	ner.					
10)⊠ The drawing(s) filed on 09 March 2004 is/are:	a)⊠ accepted or b)☐ obje	cted to by the Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyanc	e. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre		•				
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:		,,,,,,,				
1. Certified copies of the priority documer	nts have been received.					
2. Certified copies of the priority documer	nts have been received in Ap	plication No				
Copies of the certified copies of the price	ority documents have been re	eceived in this National Stage				
application from the International Burea						
* See the attached detailed Office action for a lis	st of the certified copies not re	eceived.				
Attachment(s)	_					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Su Paper No(s)	mmary (PTO-413) /Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		ormal Patent Application				

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DETAILED ACTION

1. This communication is responsive to the amendment filed 12 March 2007.

2. Claims 1-41 are pending in the current application. Claims 1, 18, 35 and 39 are independent. In the amendment filed 12 March 2007, claims 18 and 35 were amended. This action is made Non-Final.

3. The double patenting rejection, objections to the drawings, rejections to the specification, objections to the claims and the claim rejections under 35 USC 112 and 35 USC 101 stated in the previous office action have been withdrawn as necessitated by applicants' arguments.

Claim Objections

4. Claims 1, 3, 11, 18, 21, 28 and 33 are objected to because of the following informalities:

Claim 1 recites the limitation "the user" in line 11. There is insufficient antecedent basis for this limitation in the claim.

Claim 3 recites the limitation "the destination storage system" in lines 1-2. Claim 1 merely recites "a destination system." Therefore, there is insufficient antecedent basis for this limitation in the claim.

Claim 11 recites the limitation "the desired organizational structure" in lines 1-2.

There is insufficient antecedent basis for this limitation in the claim.

Claim 18 recites the limitation "the user" in line 11. There is insufficient antecedent basis for this limitation in the claim. Also, the claim includes a limitation labeled (b) in line 8. The claim fails to include a limitation labeled (a).

Claim 21 recites the limitation "the destination storage system" in lines 1-2.

Claim 1 merely recites "a destination system." Therefore, there is insufficient antecedent basis for this limitation in the claim.

Claim 28 recites the limitation "the desired organizational structure" in lines 1-2.

There is insufficient antecedent basis for this limitation in the claim.

Claim 33 states that it is dependent on the method of claim 15. However, claim 15 is related to a system.

Appropriate correction is required.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 14 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Each claim recites the limitation "wherein the data structures include qtree relationships with respect to." The claim fails to state what the relationships are with respect to.

To allow for compact prosecution, the examiner will apply prior art to these claims as best understood, with the assumption that applicant will amend to overcome the stated 112 rejections.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1-17 and 39-41 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 1 is directed towards a system. However, the system can be interpreted as comprising entirely of software per se according to one of ordinary skill in the art.

The system comprises a destination system, a source file system, a management application and a user interface. According to page 34, lines 18-21 of applicants'

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specification, "... the data can be organized around a variety of data structures and the terms "file," "file system," "directory" and the like should be taken broadly to include a variety of "data structures," "data sets," or "data organizations." Therefore when the term "file system" is interpreted broadly, the term fails to incorporate hardware. Also, the management application and the user interface are interpreted as being software. Therefore, the claim language fails to provide the necessary hardware required for the claim to fall within the statutory category of a system.

According to MPEP 2106:

The claims lack the necessary physical articles or objects to constitute a machine or a manufacture within the meaning of 35 USC 101. They are clearly not a series of steps or acts to be a process nor are they a combination of chemical compounds to be a composition of matter. As such, they fail to fall within a statutory category. They are, at best, functional descriptive material *per se*.

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." Both types of "descriptive material" are nonstatutory when claimed as descriptive material *per se*, 33 F.3d at 1360, 31 USPQ2d at 1759. When functional descriptive material is recorded on some computer-readable medium, it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare *In re Lowry*, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994)

Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier signal, does not make it statutory. See *Diehr*, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in *Benson* were unpatentable as abstract ideas because "[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer.").

Since claims 2-17 are dependent on claim 1, the claims are rejected on the same grounds as claim 1.

Claim 39 is directed toward "a computer-readable medium including program instructions" and is non-statutory because the computer-readable medium

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encompasses subject matter and/or embodiments, which do not fall within a statutory category.

The meaning of "computer-readable medium" as disclosed in page 34, lines 23-25 of the specification covers non-statutory embodiments, which improperly include transmission media.

According to MPEP 2106:

There is always some form of physical transformation within a computer because a computer acts on signals and transforms them during its operation and changes the state of its components during the execution of a process. Even though such a physical transformation occurs within a computer, such activity is not determinative of whether the process is statutory because such transformation alone does not distinguish a statutory computer process from a nonstatutory computer process. What is determinative is not how the computer performs the process, but what the computer does to achieve a practical application. See *Arrhythmia*, 958 F.2d at 1057, 22 USPQ2d at 1036.

Since **claims 40 and 41** are dependent on claim 39, the claims are rejected on the same grounds as claim 39.

To allow for compact prosecution, the examiner will apply prior art to these claims as best understood, with the assumption that applicant will amend to overcome the stated 101 rejections.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claims 1, 2, 7-19, 24-36 and 38-40 are rejected under 35 U.S.C. 102(e) as being anticipated by US PGPub 2004/0010487 to Prahlad et al (hereafter Prahlad).

Referring to claim 1, Prahlad discloses a system for indexing and manipulating a set of backup data stored on a destination system interconnected with a source file system having source data from which the backup data is transmitted to the destination system (see abstract and [0051]) comprising:

a management application`[snapshot manager] that (a) communicates with the destination system and that accesses data identifiers related to the backup data organized in a tree structure [directory frame which provides a hierarchical arrangement] and representing a plurality of persistent consistency point images (PCPIs) [snapshots] of the data, each with associated information related to creation time [date of creation] (see [0055], lines 10-19; [0061]; [0066]; and Fig 6) and (b) organizes the data identifiers into a structure that enables the data to be displayed in a plurality of organizational formats (see [0066]; Fig 6; [0067]; and Fig 7); and

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a user interface that allows selective display of the data identifiers so that the backup data can be accessed and manipulated by the user in a desired organizational format (see Fig 6; Fig 7; and [0058]; lines 1-5).

Referring to claim 2, Prahlad discloses the system as set forth in claim 1 further comprising a database that stores the data identifiers and rules for handling the data identifiers for retrieval by the user interface and the management application (see [0036], lines 4-7).

Referring to claim 7, Prahlad discloses the system as set forth in claim 1 wherein the desired organizational format includes at least each of (a) a listing of source data entries indexed by names of the source system and (b) a listing of source data entries indexed by names of directories of the source system, and (c) a listing of source data entries indexed by names of volumes of the destination system in which the backup data from the source data resides (see [0066], lines 9-18; Fig 6; and Fig 7).

Referring to claim 8, Prahlad discloses the system as set forth in claim 7 wherein each of the entries of each listing includes a browse backups button that enables a user to view backup data stored on the destination system that is associated respectively with each of the entries (see [0066]; Fig 6; and Fig 7).

Referring to claim 9, Prahlad discloses the system as set forth in claim 1 wherein the desired organizational format includes a listing of backup data entries all having a selected data structure (see [0066]; Fig 6; and Fig 7).

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Referring to claim 10, Prahlad discloses the system as set forth in claim 9 wherein the data structures include at least one of either a directory or a file (see [0066]; Fig 6; and Fig 7).

Referring to claim 11, Prahlad discloses the system as set forth in claim 8 wherein the desired organizational structure includes a listing of backup data entries indexed by a backup date and time (see [0066]; Fig 6; and Fig 7).

Referring to claim 12, Prahlad discloses the system as set forth in claim 11 wherein each of the entries of each listing includes a restore button that enables a user to view restorable backup data structures with respect to each of the entries and to restore the backup data structures to the source data (see [0069] and Fig 7).

Referring to claim 13, Prahlad discloses the system as set forth in claim 12 wherein the backup data structures include files and directories (see [0066]; Fig 6; and Fig 7).

Referring to claim 14, Prahlad discloses the system as set forth in claim 12 wherein the data structures include qtree relationships with respect to (see [0066], lines 1-9).

Referring to claim 15, Prahlad discloses the system as set forth in claim 14 wherein the user interface includes a command for destroying a qtree relationship between the source data and a selected volume of the backup data in the destination system (see [0066]; [0055], lines 17-19; [0069] and Fig 7).

Referring to claim 16, Prahlad discloses the system as set forth in claim 15 wherein the management application is adapted to delete a respective qtree associated

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with the qtree relationship on the destination system in response to activation of the command for destroying (see [0066]; [0055], lines 17-19; [0069] and Fig 7).

Referring to claim 17, Prahlad discloses the system as set forth in claim 1 further comprising, in the user interface, a screen that enables selected of the source data to be listed as entries and to be transmitted as backup data to the destination system at a time separate from a scheduled backup time (see [0049], lines 20-26).

Referring to claim 18, Prahlad discloses a method for indexing and manipulating a set of backup data stored on a destination system interconnected with a source file system having source data from which the backup data is transmitted to the destination system (see abstract and [0051]) comprising:

communicating, by a management client [snapshot manager], with the destination system and accessing data identifiers related to the backup data organized in a tree structure [directory frame which provides a hierarchical arrangement] and representing a plurality of persistent consistency point images (PCPIs) [snapshots] of the data, each with associated information related to creation time [date of creation] (see [0055], lines 10-19; [0061]; [0066]; and Fig 6) and (b) organizing the data identifiers into a structure that enables the data to be displayed in a plurality of organizational formats (see [0066]; Fig 6; [0067]; and Fig 7); and

selectively displaying, on a user interface, the data identifiers so that the backup data can be accessed and manipulated by the user in a desired organizational format (see Fig 6; Fig 7; and [0058]; lines 1-5).

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Referring to claim 19, Prahlad discloses the method as set forth in claim 18 further comprising a database that stores the data identifiers and rules for handling the data identifiers for retrieval by the user interface and the management application (see [0036], lines 4-7).

Referring to claim 24, Prahlad discloses the method as set forth in claim 18 wherein the desired organizational format includes at least each of (a) a listing of source data entries indexed by names of the source system and (b) a listing of source data entries indexed by names of directories of the source system, and (c) a listing of source data entries indexed by names of volumes of the destination system in which the backup data from the source data resides (see [0066], lines 9-18; Fig 6; and Fig 7).

Referring to claim 25, Prahlad discloses the method as set forth in claim 24 wherein each of the entries of each listing includes a browse backups button that enables a user to view backup data stored on the destination system that is associated respectively with each of the entries (see [0066]; Fig 6; and Fig 7).

Referring to claim 26, Prahlad discloses the method as set forth in claim 18 wherein the desired organizational format includes a listing of backup data entries all having a selected data structure (see [0066]; Fig 6; and Fig 7).

Referring to claim 27, Prahlad discloses the method as set forth in claim 26 wherein the data structures include at least one of either a directory or a file (see [0066]; Fig 6; and Fig 7).

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Referring to claim 28, Prahlad discloses the method as set forth in claim 25 wherein the desired organizational structure includes a listing of backup data entries indexed by a backup date and time (see [0066]; Fig 6; and Fig 7).

Referring to claim 29, Prahlad discloses the method as set forth in claim 28 wherein each of the entries of each listing includes a restore button that enables a user to view restorable backup data structures with respect to each of the entries and to restore the backup data structures to the source data (see [0069] and Fig 7).

Referring to claim 30, Prahlad discloses the method as set forth in claim 29 wherein the backup data structures include files and directories (see [0066]; Fig 6; and Fig 7).

Referring to claim 31, Prahlad discloses the method as set forth in claim 30 wherein the data structures include qtree relationships with respect to (see [0066], lines 1-9).

Referring to claim 32, Prahlad discloses the method as set forth in claim 31 wherein the user interface includes a command for destroying a qtree relationship between the source data and a selected volume of the backup data in the destination system (see [0066]; [0055], lines 17-19; [0069] and Fig 7).

Referring to claim 33, Prahlad discloses the method as set forth in claim 15 wherein the management application is adapted to delete a respective qtree associated with the qtree relationship on the destination system in response to activation of the command for destroying (see [0066]; [0055], lines 17-19; [0069] and Fig 7).

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Referring to claim 34, Prahlad discloses the method as set forth in claim 18 further comprising, in the user interface, a screen that enables selected of the source data to be listed as entries and to be transmitted as backup data to the destination system at a time separate from a scheduled backup time (see [0049], lines 20-26).

Referring to claim 35, Prahlad discloses a method for managing backup of data from a source system to a destination system and restore of backup data, relative to source data, from the source system to the destination system (see [abstract and [0051]) comprising:

communicating, by a management application [snapshot manager], with each of the source system and the destination system and transmitting requests to read a data organization residing on each of the source system and the destination system to derive a structure of data identifiers for the data organization each of the source system and the destination system (see [0055], lines 10-19; [0061]; [0066]; and Fig 6); and

displaying, with a user interface communicating with the management application, selected information related to active data on the source system derived from source system data organization identifiers related to active data and selected information related to backup data on the destination system derived from destination system data identifiers related to persistent consistency point images (PCPIs) [snapshots] transmitted from the source data during backup operations (see Fig 6; Fig 7; [0058], lines 1-5 and [0066]).

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Referring to claim 36, Prahlad discloses the method as set forth in claim 35 wherein the data organization comprises a directory and file structure including directory roots (see [0066]; Fig 6; and Fig 7).

Referring to claim 38, Prahlad discloses the method as set forth in claim 36 further comprising activating user interface buttons associated with entries of the displayed selected information to conduct either of a backup operation and a restore operation with respect to the entries (see Fig 7 and [0069]-[0071]).

Referring to claim 39, Prahlad discloses a computer-readable medium including program instructions for managing backup of data from a source system to a destination system and restore of backup data, relative to source data, from the source system to the destination system (see [abstract and [0051]), the program instructions comprising:

communicating, by a management application [snapshot manager], with each of the source system and the destination system and transmitting requests to read a data organization residing on each of the source system and the destination system to derive a structure of data identifiers for the data organization each of the source system and the destination system (see [0055], lines 10-19; [0061]; [0066]; and Fig 6); and

displaying, with a user interface communicating with the management application, selected information related to active data on the source system derived from source system data organization identifiers related to active data and selected information related to backup data on the destination system derived from destination system data identifiers related to persistent consistency point images (PCPIs)

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[snapshots] transmitted from the source data during backup operations (see Fig 6; Fig 7; [0058], lines 1-5 and [0066]).

Referring to claim 39, Prahlad discloses the computer-readable medium as set forth in claim 39 wherein the data organization comprises a directory and file structure including directory roots (see [0066]; Fig 6; and Fig 7).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 3-6, 20-23, 37 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over US PGPub 2004/0010487 to Prahlad et al as applied respectively to claims 2, 19, 36 and 39 above, and further in view of US Patent No 6,434,681 to Armangau (hereafter Armangau).

Referring to claim 3, Prahlad discloses communication with the destination storage system, however, Prahlad fails to explicitly disclose the further limitation of a network data management protocol extension. Armangau discloses indexing snapshots (see abstract), including the further limitation of in the destination storage system, a network data management protocol (NDMP) extension, communicating with a storage operating system of the destination storage system and providing NDMP based communication between the management application and the storage operating system

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(see column 9, line 46 – column 10, line 21 and column 17, lines 40-52) since NDMP is a standard which facilitates the partitioning of the backup problem between backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the NDMP extension disclosed by Armangau to provide the communication disclosed by Prahlad. One would have been motivated to do so since NDMP is a standard, which facilitates the partitioning of the backup problem between backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup (Armangau: see column 1, lines 48-62).

Referring to claim 4, the combination of Prahlad and Armangau (hereafter Prahlad/Armangau) discloses the system as set forth in claim 3 further comprising a job framework that organizes a plurality of backup operations and restore operations by the management application and that communicates with the user interface so as to enable a user to access information with respect to status of the backup operations and restore operations organized by the job framework (Prahlad: see Fig 6 and 7).

Referring to claim 5, Prahlad/Armangau discloses the system as set forth in claim 4 further comprising a scheduler that interfaces with the source system and that performs the backup operations, transmitting the backup data from the source system to the destination system at a predetermined time interval (Prahlad: see [0049]; Fig 6; and Fig 7).

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Referring to claim 6, Prahlad/Armangau discloses the system as set forth in claim 5 wherein the user interface includes a screen that enables a user to set a desired lag time after which failure to complete a scheduled backup operation caused an event to occur (Prahlad: see [0049]; Fig 6; and Fig 7).

Referring to claim 20, Prahlad discloses communication with the destination storage system, however, Prahlad fails to explicitly disclose the further limitation of a network data management protocol extension. Armangau discloses indexing snapshots (see abstract), including the further limitation of in the destination storage system, a network data management protocol (NDMP) extension, communicating with a storage operating system of the destination storage system and providing NDMP based communication between the management application and the storage operating system (see column 9, line 46 – column 10, line 21 and column 17, lines 40-52) since NDMP is a standard which facilitates the partitioning of the backup problem between backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the NDMP extension disclosed by Armangau to provide the communication disclosed by Prahlad. One would have been motivated to do so since NDMP is a standard, which facilitates the partitioning of the backup problem between backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup (Armangau: see column 1, lines 48-62).

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Referring to claim 21, Prahlad/Armangau discloses the method as set forth in claim 20 further comprising a job framework that organizes a plurality of backup operations and restore operations by the management application and that communicates with the user interface so as to enable a user to access information with respect to status of the backup operations and restore operations organized by the job framework (Prahlad: see Fig 6 and 7).

Referring to claim 22, Prahlad/Armangau discloses the method as set forth in claim 21 further comprising a scheduler that interfaces with the source system and that performs the backup operations, transmitting the backup data from the source system to the destination system at a predetermined time interval (Prahlad: see [0049]; Fig 6; and Fig 7).

Referring to claim 23, Prahlad/Armangau discloses the method as set forth in claim 22 wherein the user interface includes a screen that enables a user to set a desired lag time after which failure to complete a scheduled backup operation caused an event to occur (Prahlad: see [0049]; Fig 6; and Fig 7).

Referring to claim 37, Prahlad discloses communication with the destination storage system, however, Prahlad fails to explicitly disclose the further limitation of a network data management protocol extension. Armangau discloses indexing snapshots (see abstract), including the further limitation wherein the steps of communicating and transmitting include formatting information into a network data management protocol (NDMP) (see column 9, line 46 – column 10, line 21 and column 17, lines 40-52) since NDMP is a standard which facilitates the partitioning of the backup problem between

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backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the NDMP extension disclosed by Armangau to provide the communication disclosed by Prahlad. One would have been motivated to do so since NDMP is a standard, which facilitates the partitioning of the backup problem between backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup (Armangau: see column 1, lines 48-62).

Referring to claim 41, Prahlad discloses communication with the destination storage system, however, Prahlad fails to explicitly disclose the further limitation of a network data management protocol extension. Armangau discloses indexing snapshots (see abstract), including the further limitation wherein the steps of communicating and transmitting include formatting information into a network data management protocol (NDMP) (see column 9, line 46 – column 10, line 21 and column 17, lines 40-52) since NDMP is a standard which facilitates the partitioning of the backup problem between backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup.

It would have been obvious to one of ordinary skill in the art at the time of the invention to utilize the NDMP extension disclosed by Armangau to provide the communication disclosed by Prahlad. One would have been motivated to do so since NDMP is a standard, which facilitates the partitioning of the backup problem between

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backup software vendors, server vendors, and network-attached storage vendors in such a way as to minimize the amount of host software for backup (Armangau: see column 1, lines 48-62).

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - US PGPub 2004/0250033 to Prahlad et al titled "System and Method for Managing Stored Data"
 - US PGPub 2005/0216788 to Mani-Meitav titled "Fast Backup Storage and Fast Recovery of Data (FBSRD)"

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly Lovel whose telephone number is (571) 272-2750. The examiner can normally be reached on 8:00 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Kimberly Lovel Examiner Art Unit 2167

9 June 2007 kml

JOHN COTHNGHAM UPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2100